### PATENT COOPERATION TREATY



# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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	(PCT Article	36 and Rule 70)	
Applicant's or agent's file ref 28578P WO		CTION Preliminary	cation of Transmittal of Internat Examination Report (Form PCT/IPEA/
nternational application No. PCT/EP2003/008	International filing day 3230 25 July 2003	ate (day/month/year) (25.07.2003)	Priority date (day/month/year) 25 July 2002 (25.07.2002)
international Patent Classifica C07D 295/205	ation (IPC) or national classification a	nd IPC	
Applicant	WILI	EX AG	
			national Preliminary Examining Author
This report is amended and 70.16 and Se	s also accompanied by ANNEXES, i.e d are the basis for this report and/or shection 607 of the Administrative Instructes consist of a total of	ets containing rectifications under the PCT).	tion, claims and/or drawings which have cations made before this Authority (se
3. This report contain.	s indications relating to the following	items:	
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	ck of unity of invention	u 10 110 voi.j, 110 voi.	
1 " = .	casoned statement under Article 35(2) ations and explanations supporting successions.	with regard to novelty, ch statement	inventive step or industrial applicabilit
VI C	ertain documents cited		
VII C	ertain defects in the international appli		
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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/008230

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1.	With	_	the elements of the international application:*	
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2	41 :	nternation se element the lau	nguage of a translation furnished for the purposes of international search (under Rule 23.	which is:
	닏	the la	nguage of publication of the international application (under Rule 48.3(b)).	ination (under Rule 55.2 and/
	L	or 55.		
3	. Wit	h regard iminary	to any nucleotide and/or amino acid sequence disclosed in the international examination was carried out on the basis of the sequence listing:	application, the international
			ined in the international application in written form.	
ļ			together with the international application in computer readable form.	
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	L	interr	statement that the subsequently furnished written sequence listing does not go lational application as filed has been furnished.	
			statement that the information recorded in computer readable form is identical to th furnished.	e written sequence listing has
١	4. 🗀	The a	amendments have resulted in the cancellation of:	
			the description, pages	
1			the claims, Nos.	
			the drawings, sheets/fig	
	5	This i	report has been established as if (some of) the amendments had not been made, since that the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ney have been considered to go
	in	olacemen this repo ! 70.17).	nt sheets which have been furnished to the receiving Office in response to an invitation to ort as "originally filed" and are not annexed to this report since they do not con	under Article 14 are referred to ntain amendments (Rule 70.16
	ana ** Any	replace	ment sheet containing such amendments must be referred to under item ] and annexed to	o this report.

International application No.

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/EP2003/008230

		stablishment of opinion with regard to novelty, inventive step and industrial applicability
1	. The quindustr	destions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be ially applicable have not been examined in respect of:
		the entire international application.
	$\boxtimes$	claims Nos1 (in part), 3, 4, 5 (in part)
	becaus	
		the said international application, or the said claims Nos
١		
		the description, claims or drawings (indicate particular elements below) or said claims Nos.
	لـــا	are so unclear that no meaningful opinion could be formed (specify):
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		the claims, or said claims Nos are so inadequately supported
		by the description that no meaningful opinion could be formed.
	$\boxtimes$	no international search report has been established for said claims Nos. 1 (in part), 3, 4, 5 (in part)
	2. A me	eaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid ence listing to comply with the standard provided for in Annex C of the Administrative Instructions:
		the written form has not been furnished or does not comply with the standard.
		the computer readable form has not been furnished or does not comply with the standard.

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 03/08230

Supplemental Box
(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Box III.

No preliminary examination is carried out in respect of subjects which have not been searched (see the international search report). The present examination is therefore restricted to the first invention as specified on supplementary sheet PCT/ISA/210 of the international search report.

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 03/08230

NO

. Reasoned statement under Article 3 citations and explanations supporti	35(2) with regard to ng such statement	novelty, inventive step or industrial applicability;
Statement		
Novelty (N)	Claims	1 (in part), 2, 5 (in part)
Moverty (IA)	Claims	
Inventive step (IS)	•	
	Claims	1 (in part), 2, 5 (in part)
	Claims	1 (in part), 2, 3 (in part)
To the trial applicability (IA)	Claims	1 (in part), 2, 5 (in part)
	Ciaims	

Citations and explanations 2.

Industrial applicability (IA)

Reference is made to the following documents: 1.

Claims

D1: WO-A-9208709

D2: Bioorg. Med. Chem. Letters, 1999, 9(17), 2483-

2486

D3: Bioorg. Med. Chem. Letters, 1999, 9(21), 3147-

3152

- The subject matter of claim 1 lacks novelty (PCT 2. Article 33(2)):
- D1 discloses (see example 1) a method for producing 2.1 3-amidino phenylalanine derivatives, in which method 3-cyanobenzyl bromide is reacted with an N-protected amino malonic acid diester (acetamido malonic acid diethylester) to produce 3-cyanophenylalanine (example 1, (1) and (2)).

The method as per D1 differs from the present method in that the N-protected 3-cyanophenylalanine is not isolated.

The method disclosed in D2 differs from the present 2.2 method by virtue of the end product.

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- 2.3 D3 does not describe the production of 3cyanophenylalanine.
- 3. The solution proposed in claim 1 of the present application cannot be considered inventive (PCT Article 33(3)) for the following reasons:

The present application is considered to address the problem of developing an alternative method for producing 3-amidino phenylalanine derivatives.

The present method differs from the method as D1, which is regarded as the closest prior art, only in that the decarboxylation and the removal of the protective groups take place in separate steps. Since the conditions for decarboxylation and separation of protective groups are generally known in the art (see, for example, document D2), the implementation of these measures would be an obvious procedure to a person skilled in the art for solving the stated problem.